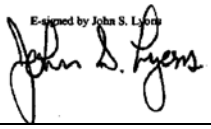
Commonwealth of Kentucky
Energy and Environment Cabinet
Department for Environmental Protection
Division for Air Quality
200 Fair Oaks Lane, 1st Floor
Frankfort, Kentucky 40601
(502) 564-3999

AIR QUALITY PERMIT
Issued under 401 KAR 52:040

Permittee Name:	**Sun Chemical Corporation**
Mailing Address:	**5020 Spring Grove Avenue, Cincinnati, Ohio 45232**
Source Name:	**Sun Chemicals**
Mailing Address:	**100 Sun Chemical Court** **Hopkinsville, KY 42240**
Source Location:	
Permit ID:	**S-01-087 R1**
Agency Interest #:	**791**
Activity ID:	**APE20080001**
Review Type:	**Minor Source, Operating**
Source ID:	**21-047-00090**
Regional Office:	**Paducah Regional Office** **130 Eagle Nest Drive** **Paducah, KY 42003** **(270) 898-8468**
County:	**Christian**
Application Complete Date:	**February 10, 2009**
Issuance Date:	**March 4, 2002**
Revision Date:	**March 9, 2009**
Expiration Date:	**March 4, 2012**



John S. Lyons, Director
Division for Air Quality

Revised 05/07/07

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:040, State-origin permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining other permits, licenses, or approvals that may be required by the Cabinet or other federal, state, or local agencies.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

INDIRECT HEAT EXCHANGERS

Name and Description	Source ID
Thermal Fluid Heater [Hot Oil]…… Natural Gas Fired, 5.0 mmBtu/hr Fulton fuel-fired coil design, Model # 0400; Installed in 1997	EP-01
Boiler for Railcar Unloading…… Natural Gas, 2.1 mmBtu/hr Fulton Model # ICS-050 Installed in 2001	EP-47
Boiler for Railcar Unloading…… Natural Gas, 2.1 mmBtu/hr Fulton Model # ICS-050 Installed in 2001	EP-48
Heater for indoor tank farm…… Natural Gas, 1.25 mmBtu/hr King Air System HUI-4; Installed in 1997	EP-54
Heater for indoor tank farm…… Natural Gas, 1.25 mmBtu/hr King Air System HUI-5; Installed in 1997	EP-55

APPLICABLE REGULATIONS:

401 KAR 59:015 New Indirect Heat Exchangers. The provisions of this administrative regulation shall apply to each indirect heat exchanger having a heat input capacity of more than one million BTU per hour commenced on or after April 9, 1972.

1. Operating Limitations: None

2. Emission Limitations:

a. Pursuant to 401 KAR 59:015, Section 4(1)(a), no owner or operator of this affected facility shall cause to be discharged into the atmosphere particulate matter in excess of 0.56 pounds per million Btu actual heat input.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

b. Pursuant to 401 KAR 59:015 Section 4(2), no owner or operator shall cause to be discharged emissions which exhibit greater than 20 percent opacity.
c. Pursuant to 401 KAR 59:015, Section 5(1)(a), no owner or operator of this facility shall cause to be discharged into the atmosphere any gases which contain sulfur dioxide in excess of three (3) pounds per million Btu actual heat input.

Compliance Demonstration
Compliance with opacity, PM and SO_2 emission limitation is demonstrated while burning natural gas only.

3. Specific Testing Requirements: None

4. Specific Monitoring Requirements:
a. The permittee shall record and maintain records of the amount of natural gas combusted on a monthly basis.
b. Refer to Section C (b) regarding retention time of records.

5. Specific Recordkeeping Requirements:
Record the item listed in the monitoring requirements above.

6. Specific Reporting Requirements: None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

MIXING AND BLENDING TANKS

Name and Description	Source ID
Varnish Mixing Tank; Installed in 1997; …….. 25 Ton tank; process rate is 24,000 Ton/yr Control for VOC : Condenser followed by Water Scrubber	EP-02
Varnish Mixing Tank; Installed in 1999……. 25 Ton tank; process rate is 24,000 Ton/yr Control for VOC :Condenser followed by Water Scrubber	EP-46
Chelate Mixing Tank; Installed in 1997; ……..……. 0.55 Ton tank; process rate is 800.97 Ton/yr	EP-03
8 Blending tanks; Installed in 1997……. 4 Large tanks at 20 Tons capacity each 4 Small tanks at 6.0 Tons capacity each Total process rate is 60,000 Tons/yr	EP-05

APPLICABLE REGULATIONS: None

1. **Operating Limitations:** None

2. **Emission Limitations:** None

3. **Specific Testing Requirements:** None

4. **Specific Monitoring Requirements:**
   State Only Requirement for EP-02 and EP-46: Monitor average condenser outlet gas temperature each batch period where a batch period is defined as the total time for any method, form, action, operation, or treatment of manufacturing or processing, and shall include any storage or handling of materials or products, before, during, or after manufacturing or processing. If the average condenser outlet gas temperature over the batch is greater than 80^0F, then, the permittee shall take corrective action to operate the condenser with the outlet gas temperature within the specified range.

5. **Specific Recordkeeping Requirements:**
   State Only Requirement for EP-02 and EP-46:
   a. Maintain monthly records of condensate collected (in gallons) from condenser.
   b. Maintain record of average condenser outlet gas temperature over each batch period and any corrective action taken before commencement of the next batch.

6. **Specific Reporting Requirements:** None

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

STORAGE TANKS

Name and Description	Source ID
8 Flush or Base Storage Tanks…… 22,000 Gal capacity (83 m^3) w/ 9,000 Gal vapor expansion; Vertical; Installed in 1997; Max processing rate: 5,768,100 Gallons total	EP: *06, 07, 08, 09, 11, 12, 13, 14* Tank No: *110/111/120/121/130/ 131/140/141*
11 Varnish Storage Tanks …… 24,000 Gal capacity (90 m^3) each w/ 12,000 Gal vapor expansion; Vertical, Installed in 1997; Annual throughput: 9,195,900 gallons	EP: *10, 15, 18, 19, 20, 25, 26, 27, 32, 33, 34* Tank No:*112/113/122/123/124/132/ 133/134/142/143/144*
4 Resin Storage Tanks; 24,000 Gal capacity (90 m^3) w/ 12,000 Gal vapor expansion; Vertical 6 Resin Storage Tanks; 8,000 Gal capacity (30 m^3) w/ 4,000 Gal vapor expansion; Vertical Installed in 1997, Annual throughput of all tanks: 4,812,200 gallons	EP: *16, 17, 21, 28* Tank No:*106/107/108/109* EP: *22, 23, 24, 29, 30, 31* Tank No:*100/101/102/103/104/116*
3 Oil Storage Tanks; 24,000 Gal capacity (90 m^3) w/ 12,000 Gal vapor expansion; Vertical 6 Oil Storage Tanks; 8,000 Gal capacity (30 m^3) w/ 4,000 Gal vapor expansion; Vertical Installed in 1997, Annual throughput of all tanks: 6,618,600 gallons	EP: *35, 36, 37* Tank No: *117/125/145* EP: *38, 39, 40, 41, 42, 43* Tank No:*105/114/115/135/136/137*
One Clay compound storage 10,000 Gal capacity tank; Vertical; Annual throughput: 260,644 gallons	EP: *50* Tank Number:*146*

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

APPLICABLE REGULATIONS :

401 KAR 60:005 Incorporation by reference 40 CFR Part 60 Standards of Performance for New Stationary Sources, Subpart Kb Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

1. **Operating Limitations:** None

2. **Emission Limitations:** None

3. **Specific Testing Requirements:** None

4. **Specific Monitoring Requirements:** None

5. **Specific Recordkeeping Requirements:**
   a. Pursuant to 40 CFR 60.116b (a), the owner or operator of each storage vessel shall keep copies of all records for at least 2 years. For storage vessels with a design capacity greater than or equal to 19,815 gallons (75 m^3), the owner or operator shall keep records for the life of the source.
   b. Pursuant to 40 CFR 60.116b (b), the owner or operator of each storage vessel with a capacity greater than or equal to 19,815 gallons (75 m^3) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

6. **Specific Reporting Requirements:**
   Pursuant to 40 CFR 60.116b (d), the owner or operator of each storage vessel with a design capacity greater than or equal to 19,815 gallons but less than 39,894 gallons storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

RESIN DUMP STATION & CLAY BASE PRODUCTION

Name and Description	Source ID
Resin Dump Station with dust collector (99% efficiency) Manufacturer: unknown; Installed in 1997; Maximum annual processing rate: 87,600 tons/year	EP-04
Clay base premix tank receiver, tank and truck loading Installed in 2008; Maximum annual processing rate: 10,774.8 tons/year	EP-52

APPLICABLE REGULATIONS:

401 KAR 59:010 New Process Operations: This regulation shall apply to each affected facility or source associated with a process operation which is not subject to another emission standard with respect to particulates commenced on or after July 2, 1975.

1. **Operating Limitations:** None

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:010 Section 3(1)(a), no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than 20 percent opacity.
   b. Pursuant to 401 KAR 59:010 Section 3(2), for emissions from a control device or stack no person shall cause, suffer, allow or permit the emission into the open air of particulate matter (PM) from any affected facility which is in excess of the quantity described below:
      (i) For process rates between 1000 lbs/hr and 60,000 lbs/hr

$$E = 3.59(P)^{0.62}$$

E = the PM emissions rate (pounds/hour)
P = the process rate (tons/hour)

      (ii) And for process rate less than or equal to 1000 lbs/hr emissions rate shall not exceed 2.34 lbs/hr

Compliance Demonstration:
See Monitoring Requirement below.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

3. Specific Testing Requirements: None

4. Specific Monitoring Requirements:

a. For compliance with opacity standard, the permittee shall perform a qualitative visual observation of the opacity of emissions at the stack no less than weekly and maintain a log of the observations. If visible emissions from the stack are seen (not including condensed water in the plume), then an inspection of the control equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the process shall be shut down and shall not operate again until repairs have been made that result in no visible emissions from the process during operation. In lieu of shutting the process down, the permittee may determine the opacity using Reference Method 9. If the opacity limit is not exceeded, the process may continue to operate.

b. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification.

c. Compliance with the mass standard is demonstrated by fulfilling the requirements identified in **7. Specific Control Equipment Operating Conditions**.

5. Specific Recordkeeping Requirements:

a. Maintain a record/log of items listed in the Monitoring Requirements above.

b. Record of preventive maintenance for the baghouse units in accordance with **7. Specific Control Equipment Operating Conditions s**hall be maintained. Records may be computerized and shall be provided to the Division personnel upon request.

6. Specific Reporting Requirements: None

7. Specific Control Equipment Operating Conditions: The baghouse units shall be in operation at all times the related process is in operation and inspected for proper operation semiannually. Preventive maintenance shall be performed in accordance with the manufacturer's recommendations.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

RAILCAR UNLOADING

Name and Description	Source ID
Railcar Unloading Arm; Installed in 2001; 3 Pump Seals 22 Valves 66 Connectors 3 Open ended lines	EP-49

APPLICABLE REGULATIONS:

401 KAR 60:005 (40 CFR 60.480-489 Subpart VV) Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.

1. **Operating Limitations:**
   a. Pursuant to 40 CFR 60.482, when a leak (from a pump seal, valve or connector) is detected it shall be repaired as soon as practicable, but not later than 15 calendar days after detection. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.
   b. Pursuant to 40 CFR 60.482-8, if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method at connectors, the owner or operator shall either monitor the equipment within 5 days or eliminate the visual, audible, olfactory, or other indication of a potential leak.
   c. Pursuant to 40 CFR 60.482-6, each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open- ended valve or line and each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

   Compliance Demonstration: See the Monitoring and Recordkeeping Requirements.

2. **Emission Limitations:**
   Pursuant to 40 CFR 60.482, if an instrument reading of 10,000 ppm VOC or greater is measured, a leak is detected.

   Compliance Demonstration: See the Testing, Monitoring and Recordkeeping Requirements.

3. **Specific Testing Requirements:**
   Pursuant to 40 CFR 60.485, the owner or operator shall determine compliance with the standards listed in the Operating and Emission Limitations using Reference Method 21

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (continued)

described in 40 CFR 60.8 Appendix A to determine the background (VOC) level. All potential leak interfaces shall be traversed as close to the interface as possible. The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

4. Specific Monitoring Requirements:

a. Pursuant to 40 CFR 60.482-8, each pump in light liquid service shall be monitored monthly to detect leaks. Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

b. Pursuant to 40 CFR 60.482-7, each valve shall be monitored monthly to detect leaks by the methods described in Specific Testing Requirements above. Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 consecutive months.

5. Specific Recordkeeping Requirements:

a. Pursuant to 40 CFR 60.486, when each leak is detected as specified above:
   (1) A weatherproof and readily visible identification, marked with the equipment number, shall be attached to the leaking equipment;
   (2) The identification on a valve may be removed after it has been monitored for 2 successive months and no leak has been detected during those 2 months;
   (3) The identification on equipment other than valves may be removed after it has been repaired.

b. Pursuant to 40 CFR 60.486 (c), when each leak is detected as specified above, the following information must be recorded in a log and shall be kept for 2 years in a readily accessible location:
   (1) The instrument, operator and equipment identification numbers;
   (2) Date the leak was detected and dates of each repair attempt;
   (3) Repair methods applied in each attempt to repair;
   (4) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak;
   (5) The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown;
   (6) Expected date of successful leak repair if not repaired within 15 days; dates of process unit shutdowns that occur while the equipment is unrepaired; and,
   (7) Date of successful leak repair.

6. Specific Reporting Requirements:

Pursuant to 40 CFR 60.487, each owner or operator subject to these provisions shall submit semiannual reports to the Administrator beginning 6 months after the initial startup date. This report shall include the process unit identification, number of valves, pumps and connectors and all leaks detected.

SECTION C - GENERAL CONDITIONS

1. Administrative Requirements

a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:040, Section 3(1)(b) and is grounds for enforcement action including but not limited to the termination, revocation and reissuance, or revision of this permit.

b. This permit shall remain in effect for a fixed term of ten (10) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division. [401 KAR 52:040, Section 15]

c. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-11 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

d. Pursuant to materials incorporated by reference by 401 KAR 52:040, this permit may be revised, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance shall not stay any permit condition [Section 1a-4, 5, of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

e. This permit does not convey property rights or exclusive privileges [Section 1a-8 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

f. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:040 Section 11(3)].

g. This permit shall be subject to suspension at any time the permittee fails to pay all fees within 90 days after notification as specified in 401 KAR 50:038, Air emissions fee. The permittee shall submit an annual emissions certification pursuant to 401 KAR 52:040, Section 20.

h. All previously issued permits to this source at this location are hereby null and void.

SECTION C – GENERAL CONDITIONS (continued)

2. Recordkeeping Requirements

a. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of at least five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [401 KAR 52:040 Section 3(1)(f) and Section 1b-IV-2 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

b. The permittee shall perform compliance certification and recordkeeping sufficient to assure compliance with the terms and conditions of the permit. Documents, including reports, shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

3. Reporting Requirements

a. (1) In accordance with the provisions of 401 KAR 50:055, Section 1, the permittee shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   i. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   ii. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

   (2) The permittee shall promptly report deviations from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Reporting Requirement condition a.(1) above), the probable cause of the deviation, and corrective or preventive measures taken; to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report [Section 1b-V-3 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

b. The permittee shall furnish information requested by the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the permit [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

c. Summary reports of monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation. The summary reports

SECTION C – GENERAL CONDITIONS (continued)

are due January 30th and July 30th of each year. All deviations from permit requirements shall be clearly identified in the reports. All reports shall be certified by a responsible official pursuant to 401 KAR 52:040, Section 21.

4. Inspections

In accordance with the requirements of 401 KAR 52:040, Section 3(1)(f) the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency:

a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation.

b. To access and copy any records required by the permit.

c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.

d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

5. Emergencies/Enforcement Provisions

a. The permittee shall not use as defense in an enforcement action, the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing State-Origin Permits* incorporated by reference in 401 KAR 52:040 Section 23].

b. An emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   (1) An emergency occurred and the permittee can identify the cause of the emergency;
   (2) The permitted facility was at the time being properly operated;
   (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   (4) The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within two working days after the time when emission limitations were exceeded due to the emergency and included a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

c. Emergency provisions listed in General Condition 5.b are in addition to any emergency or upset provision contained in an applicable requirement [401 KAR 52:040, Section 22(1)].

d. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:040, Section 22(2)].

6. Compliance

SECTION C – GENERAL CONDITIONS (continued)

a. Periodic testing or instrumental or non-instrumental monitoring, which may consist of record keeping, shall be performed to the extent necessary to yield reliable data for purposes of demonstration of continuing compliance with the conditions of this permit. For the purpose of demonstration of continuing compliance, the following guidelines shall be followed:
   (1) Pursuant to 401 KAR 50:055, General compliance requirements, Section 2(5), all air pollution control equipment and all pollution control measures proposed by the application in response to which this permit is issued shall be in place, properly maintained, and in operation at any time an affected facility for which the equipment and measures are designed is operated, except as provided by 401 KAR 50:055, Section 1.
   (2) All the air pollution control systems shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers. A log shall be kept of all routine and nonroutine maintenance performed on each control device. Daily observations are required during daylight hours of all operations, control equipment and any visible emissions to determine whether conditions appear to be either normal or abnormal. If the operations, controls and/or emissions appear to be abnormal, the permittee must then comply with the requirements of Section C – General Conditions, 3.a.(2), of this permit.
   (3) A log of the monthly raw material consumption and monthly production rates shall be kept available at the facility. Compliance with the emission limits may be demonstrated by computer program, spread sheets, calculations or performance tests as may be specified by the Division [401 KAR 50:055, Section 2].

b. Pursuant to 401 KAR 52:040, Section 19, the permittee shall certify compliance with the terms and conditions contained in this permit by January 30th of each year, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an approved alternative) to the Regional Office listed on the front of this permit in accordance with the following requirements:
   (1) Identification of the term or condition;
   (2) Compliance status of each term or condition of the permit;
   (3) Whether compliance was continuous or intermittent;
   (4) The method used for determining the compliance status for the source, currently and over the reporting period, and
   (5) For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION C – GENERAL CONDITIONS (continued)

(6) The certification shall be postmarked by January 30th of each year. Annual compliance certifications shall be mailed to the following addresses:

Division for Air Quality
Paducah Regional Office
4500 Clarks River Rd.
Paducah, KY 42003-0823

Division for Air Quality
Central Files
200 Fair Oaks Lane, 1st Floor
Frankfort, KY 40601

c. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with all:
(1) Applicable requirements that are included and specifically identified in this permit; or
(2) Non-applicable requirements expressly identified in this permit [401 KAR 52:040, Section 11].

7. Construction Requirements:

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission point 13 (Clay Base Production) in accordance with the terms and conditions of this permit.

a. Pursuant to 401 KAR 52:040, Section 12(3), unless construction is commenced on or before 18 months after the date of issuance of this permit, or if construction is commenced and then stopped for any consecutive period of 18 months or more, or is not completed within a reasonable timeframe, then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon a written request, the Cabinet may extend these time periods if the source shows good cause.

b. Pursuant to 401 KAR 52:040, Section 12(4)(a) and 401 KAR 59:005, General provisions, Section 3(1), within 30 days following construction commencement, within 15 days following start-up and attainment of maximum production rate, or within 15 days following the issuance date of this permit, whichever is later, the owner and/or operator of the affected facilities specified on this permit shall furnish to the Regional Office listed on the front of this permit, with a copy to the Division's Frankfort Central Office, the following:
(1) Date when construction commenced.
(2) Start-up date of each of the affected facilities listed on this permit.
(3) Date when maximum production rate was achieved.

c. (1) Pursuant to 401 KAR 59:005, General provisions, Section 2(1), this permit shall allow time for the initial start-up, operation and compliance demonstration of the affected facilities listed herein. However, within 60 days after achieving the maximum production rate at which the affected facilities will be operated, but not later than 180 days after initial start-up of such facilities, the owner or operator shall demonstrate compliance to a duly authorized representative of the Division.

SECTION C – GENERAL CONDITIONS (continued)

(2) Pursuant to 401 KAR 59:005, General provisions, Section 3(1)(b), unless notification and justification to the contrary are received by this Division, the date of achieving the maximum production rate at which the affected facilities will be operated shall be deemed to be 30 days after initial start-up.

(3) Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.

(4) Pursuant to 401 KAR 50:045 Section 5 in order to demonstrate that a source is capable of complying with a standard at all times, a performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive this requirement on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.

d. Operation of the affected facilities authorized by this permit shall not commence until compliance with applicable standards specified herein has been demonstrated in accordance with the requirements of 401 KAR 52:040, Section 12(4) (b). Until compliance is demonstrated, the source may only operate for the purpose of demonstrating compliance.

SECTION D – INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:040, Section 6. Although these activities are designated as insignificant the permittee must comply with the applicable regulation. Process and emission control equipment at each insignificant activity subject to an opacity standard shall be inspected monthly and a qualitative visible emissions evaluation made. Results of the inspection, evaluation, and any corrective action shall be recorded in a log.

Description	Generally Applicable Regulation
1. One Wax compounds storage 11,000 Gal capacity tank; Annual throughput: 100,155 gallons; tank number T-147	None
2. Two indirect natural gas heat exchangers (HUI-2, HUI-3) with 0.685 mmBtu/hr heat input rating	None